

### **ABSTRACT OF THE DISCLOSURE**

In a fluid purification system, the same ultraviolet lights are used for both germicidal irradiation and photocatalytic oxidation. By positioning the ultraviolet lights where they can shine on both a heat transfer element (or other air handling system component) and onto a photocatalyst on a substrate, the total number of ultraviolet lights in the system is reduced, thereby reducing both the initial cost and the maintenance cost of periodically replacing the ultraviolet lights.

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